HAVE LONG SOUGHT MASTERY OF AIR

Ambitious Minds Would Control Only Element That Has Defied Man

Now It Is Thought That the Aeroplane Devised by Wright Brothers May at Least Point the Way to Success---Could Laugh at Vessels cannot fly out of it. In fact, we know of War.

absurdity, now seems to be very much as it is on it. of a practical reality, says a writer in the New York Times.

Aside from the triumph of the long and apparently easily controlled flight, the most important item contained in the news dispatches from Mantou, N. C., where the brothers have been conducting their experiments, is the statement that the aeroplane not only carried both men, but carried them in a sitting position. The earlier aeroplane ator, as does the balancing of a bicyof these inventors carried but one cle rider, and simpler to operate than aviator, and it was necessary for him to be prone upon his stomach. The significance of the statement lies

in the apparent fact that the inventors have at last succeeded in overcoming the real problem of mechanical flight -the problem of equilibrium. Aeroplanes that would support their operators have previously been tested. Engines of sufficient lightness to propel and that of the operators have also been successfully tried. There have been plenty of aeroplanes that would fly in still air. The one needful, essential, and undiscovered thing was an airship that would not capsize when

the wind was blowing. Writing in a recent issue of Mc-Clure's Magazine, George Kibbe Turner quotes the Wright brothers as asserting that no one who had not navigated the air can appreciate the real difficulty of mechanical flight-that the great problem-the problem of equilibrium-never occurs to any one who has not actually tried flying.

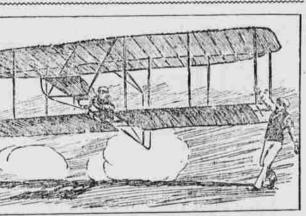
EW YORK .- Those reti-1 solve the problem of equilibrium by cent and intensely ab- some automatic system of balancing. sorbed westerners, the We believe that the control should be Wright brothers of Day- left to the operator. The sense of equiton, O., appear to have librium is very delicate and certain. at last conquered the ele- If you lie upon a bed three-quarters of ments which have so long baffled the an inch out of true, you know it at ingenuity of man, and aerial naviga- once. And this sense of equilibrium is tion, so long regarded as a fascinating just as reliable a mile above the earth

> "The management of our aeroplane like that of the bicycle, is based upon the sense of equilibrium of the opera-The mechanism for preserving the balance of the machine consists of levers operated by simple uniform movements which readjust the flying surfaces of the machine to the air. The movement of these levers very soon becomes automatic with the avia bleyele. In fact, the aeroplane is easier to learn. In all our experiments with gliding and flying machines, we have not even sprained a limb; we have scarcely scratched our flesh."

Fatalities Among Inventors.

But if these two experimenters have had immunity from mishap their pre decessors have not. Among the first them through the air at a sufficient to undertake the task of demonstratspeed and to carry their own weight, ing that a mechanical flying machine is possible was Otto Lillienthal, a German mechanical engineer. He made a study of the flight of birds and eventually concluded that very little was known of the laws which govern the flight of the feathered tribe. He began experimenting in 1891, using wings constructed like those of soaring birds. Equipped with these, he sailed down hill sides into valleys. After a series of more than 2,000 flights one of his wings gave way one day and in his tumble to earth he dislocated his spine and died the following day.

That was in 1896. Three years later an Englishman, Percy S. Pilcher, be-



The Wright Brothers have conducted their experiments with great secrecy. The above illustrations give, however, an excellent idea of their acroplane. They are from photographs taken from a distance for McClure's Magazine. The upper picture shows the glider in motion. The lower picture shows the method of starting.

Thus, the real question of the flying gan experimenting along the same machine is how to keep it from turn- line. He had essayed only a few flights

Air in Constant Turmoil.

"The chief trouble," the brothers explained, "is the turmoil of the air. The common impression is that the atmosphere runs in comparatively regular currents which we call winds. No one who has not been thrown about on a gliding aeroplane-rising or falling ten, 20 or even 30 feet in a few seconds-can understand how utterly wrong this idea is. The air along the surface of the earth, as a matter of fact, is continually churning. It is thrown upward from every irregularity, like sea breakers on a coast line; every hill and tree and building sends up a wave or slanting current. And it moves not directly back and forth upon its coast line, like the sea, but in whirling rotary masses. Some of these rise up hundreds of yards. In a fairly strong wind the air near the earth is more disturbed than the whirlpools of Ni-

"The problem of mechanical flight is how to balance in this moving fluid which supports the flying machine; or, technically speaking, how to make the center of gravity coincide with the center of air-pressure. The wind often veers several times a second, quicker than thought, and the center of pressure changes with it. It is as difficult to follow this center of pressure as to keep your finger on the flickering blot of light from a prism swinging in the sun.

experimenters with the aeroplane to eign war departments:

when one of his wings broke and he sustained injuries which caused his death a few days later.

On this side of the Atlantic, Prof. S. P. Langley conducted some notable year gas engines are being made fleet are immune from any attack experiments, fashioning in 1896 a lighter-a fact which will increase the save that of small arm fire, and that small, steam-driven aeroplane which surplus carrying power of the machine they could attain a height so great as made a flight of three-quarters of a available for fuel and operator and to be out of range from these smaller chine which attracted some attention. for the flying machine. This, of capable of such extreme elevation. Of Four years later the Wright brothers, course, means speed through the course it would be easily possible to two young bicycle makers of Dayton, air. began experimenting.

began to attract attention. But they sedulously avoided notoriety, kept news. Our 1907 machine will carry their own counsel, and devoted themlem of mechanical flight. Mr. Turner, however, gained their confidence, and little brick bicycle shop; pleasant, un- to move at speeds up to 60 miles an assuming, most approachable, but hour can be operated economically at shy and silent under the oppression of the greatest secret of the time. Orville, of the more social and conversational temperament, did the greater share of the talking-an amiable, kindly-faced man of 35. Wilbur-prematurely bald, about 40, with the watchful eyes, marked facial lines, and dry, brief speech of a naturally reticent

Their New Method.

brothers told him just prior to their going abroad last year for the demon-"It has been the common aim of stration of their machines before for-

of practice with gliding machines," explained. "Lillienthal and Chaflying with the operator's launching himself from a hill and gliding down on to lower land. This involved carrying back their apparatus, after a short flight, to the top of the hill again. Because of the difficulties of this awkward method, although Lillienthal had made over 2,000 flights, we calculated that in all his five years of experiment he could not have been actually practicing flying more than five hours-far too short for the ordipary man to learn to ride a blevele. It was our plan to follow the example of soaring birds, and find a place be supported by where we could

strong rising winds. "A bird is really an aeroplane. The portions of its wings near the body are used as planes of support, while the more flexible parts outside, when fiapped, act as propellers. Some of the soaring birds are not much more than animated sailing machines. A buzzard can be safely kept in an open pen 30 feet across and ten feet high. He from observation made by ourselves that he cannot fly for any distance up a grade of one to six.

"Yet these birds sailing through the air are among the commonest sights through a great section of the country. Every one who has been outdoors has seen a buzzard or hawk soaring; every one who has been at sea has seen the gulls sailing after a steamship for hundreds of miles with scarcely a movement of the wings. All of these birds are doing the same thing -they are balancing on rising currents of air. The buzzards and hawks find the currents blowing upward off the land; the gulls that follow the steamers from New York to Florida are merely sliding down hill a thousand miles on rising currents in the wake of the steamer in the atmosphere, and on the hot air rising from her smokestacks.

Think Great Speed Possible.

The brothers believe that the event-

"We had worked out a new method wing, but the faster the speed the less will be the supporting surface necessary, and wings for high speeds will nute had obtained their experience in | naturally be very small. Not only will less support be needed, but the size must be reduced to reduce the fric-

Fearful Only of Capsize.

Although one of the brothers had an ugly fall only a few days ago, they both maintain that the only danger to be apprehended from an acroplane is the danger of a capsize. A breakdown, or a sudden stopping of the engine, they say-and they certainly should know-does not entail disaster, as on the first thought it might appear. Their explanation is that while the aeroplane is supported in the air through its own motion through it, yet gravity furnishes all the energy that is needed to get safely to the ground. When the power is shut off it merely scales through the air to its landing. Theoretically, it is safer at a mile above the earth than at 200 feet, because it has a wider choice of places in which to land; you can choose your landing from 256 square miles from a mile above the surface if descending one in sixteen. "As a matter of fact." they said, "we always shut off the power when we start to alight, and come down by the force of gravity. We reach the ground at so slight an angle and so lightly that it is impossible for the operator to tell by his own sensation within several yards of where the ground was first actually touched.

We feel that it is absolutely essential for us to keep our method of control a secret. We could patent many points in the machine, and it is possible that we could make a success of the invention commercially. We have been approached by many promoters on the matter. But we believe that our best market is to sell the mawar. To do this it is necessary for us to keep its construction an absolute secret.'

To the same writer the brothers made the interesting statement that nal speed of the aeroplane will be they did not expect the aeroplane ever easily 60 miles an hour, and may be to displace the railroad or the steam

forced up to 100 miles. "Our experi- boat. They predict that its chief a flier designed to carry an aggregate may be employed for dropping exploof 745 pounds at 20 miles an hour sives upon an enemy or for reconexperiment will determine. Every that flying machines sailing over a

"The aeroplane running 60 miles an It was not long before their efforts hour will have surplus lifting power enough to carry fuel for long jourgasoline enough to fly 500 miles at a selves to the task of solving the probcan, and possibly soon will, make a one-man machine carrying gasoline gun-pointer to tell where his shells thus describes them: "Two lean, enough to go 1,000 miles at 40 miles quiet men in a dingy, commonplace an hour. Moreover, any machine made into the air? a cost of not much over one cent a mile for gasoline.

"There is no question that a man can make a lighter and more efficient wing than a bird's. A cloth surface, for instance, can be produced offering less surface friction than feathers. The reason for this fact is that a bird's wing is really a compromise. It is not made for flying only-it must be folded up and got out of the way To quote his account of what the when the bird is on its feet, and efficiency in flying must be sacrificed to Trulywed. "Can you see what it is?" permit this. The wings of aeroplanes will vary in size according to speed. the price tag," answered Miss Belle A slow machine will require a large Tinkly.-Cleveland Leader.

ments have shown," they said, "that value will be in war time, when it would require only eight horsepower, noitering purposes. In this connecand at 30 miles an hour 12 horse tion may be added the fact that the power. At 60 miles 24 horsepower navy department has planned an exwould be needed, and at 120 miles 60 tensive series of experiments with the payement on Main street within or 75 horsepower. It is clear that dirigibles, the purpose being to disthere is a certain point of speed be cover their availability for war usage. Boggy creek, usually 20 feet wide, yond which the air resistance makes Those who advocate the employment it impossible to go. Just what that is of these machines point out the fact places. In the same year Chanute of heavier construction, but at present weapons. There is no type of larger Chicago constructed a gliding ma- 60 miles an hour can be counted on gun now carried on shipboard that is Osage street, has an excellent chance construct a gun mount that would permit of high angle, or even vertical fire, but the question is asked how would you be able to hit one of these small targets sailing so high in air?

When firing at a floating target any error of sighting can be detected by the splash of the shell. But how is a are going when he is firing upward

No Danger.

"Whatever you do, dear," wrote the ardent lover, "don't show my letters to you to anyone."

"Have no fear, dearest," came the eply. "I'm just as much ashamed of

And, with that, the engagement beame a matter of history.-Judge.

These New Coiffures.

"What a queer ornament Miss Souffies wears in her bair!" said Mrs "Yes-that's not an ornament. It's

NO SHELF FOR HIM Habitual

PRESIDENT ROOSEVELT'S HUNT. ING TRIP DOES NOT MEAN FINAL RETIREMENT.

THIRD TERMERS WILL NOT STAY DOWN

No Position in Which He May Serve His Country Will Be Considered Below His Dignity When He Returns to Public Life-Hopes for Many Years of Activity.

Washington, June 7.—President Roosevelt's announcement Friday that immediately after his retirement from the presidency he would go on a two years' hunting trip in British East Africa with his son Kermit is in the nature of a reply to a persistent aggregation of third term agitators who have been bombarding him with telegrams demanding his acceptance of the Republican nomination for the presidency if it is tendered. These dispatches may and may not have been inspired from the same source, but every indication points to the fact that they were forwarded to the White house as part of a concerted movement.

In the meanwhile, the third term boomers who persist in believing that the president doesn't know his own mind have again become active and are engaged in a desperate attempt to arouse public sentiment in favor of a third term on the eve of the Chicago convention. The president cannot continue to publicly repeat the state ment that under no circumstances will he be a candidate for the presidency, chine to some government for use in although he tells callers as much almost every day.

But his plans for the future are absolutely determined upon and he will not be swerved from his programme.

That the president does not intend permanently to retire from active par ticipation in American politics is just well settled as that he will not permit himself to be made a candidate for the presidency in 1908. He is too young, too vigorous and there is too much for him to do for him to place himself on a political shelf.

Two Injured When an Engine Jumped.

Kansas City, June 7.-A Wabash passenger locomotive was derailed unfer the west approach of the intercity riaduct at \$:30 o'clock Saturday morning and two laborers who had been working on the track at that point were injured. An angle bar flew off and struck Seag George on one shoulder, and in the scramble to get out of the way Mike Carbone sprained an ankle. Trains were delayed only a few minutes.

Former Kansas City Man.

New York, June 7.-The alumnae and students of the Dewitt Clinton High school formed a committee last night to get subscriptions for a mem orial to John T. Buchanan, the prin-1897 until his recent death. The mem orial is to take the form of a portrait by a reputable artist, an appropriate frame and a small tablet bearing the dates of Dr. Buchanan's principalship. Albert I. Calalo is now acting prin

The Week's Business Failures.

New York, June 7 .- Business failares for the week ended June 4 number 225 in the United States, the smallest reported for any week since last October, and compared with 263 last week and 155 in the like week of 1907. Business failures for the week ended June 4 number 32 in Canada against 31 last week and 18 in the like week last year.

Flood in Oklahoma.

Enid. Ok., June 7.-Following an exceedingly heavy rain Saturday a disastrous flood struck Enid about daybreak. Water stood 12 feet deep on two blocks of the business center. spread out to 2,000 feet in many

Mrs. Gerling May Recover.

St. Louis, June 7.-Mrs. Elizabeth Gerling, whose throat was slashed Thursday night by a man who hid beneath her bed in her home at 2855 for recovery, for unless infection sets in she will be able to leave the hospital in a few days.

More Digging in LaPorte.

LaPorte, Ind., June 6 .- Sheriff Smutzer has resumed digging on the Gunness farm. He will try to learn if there is any foundation for that part of the Truelson confession which deals with the burial of Mae O'Rellly and Frank Redinger near the railroad track.

Six Dead From Baseball,

Cincinnati, June 7 .- A blow on the cheek from a batted ball resulted in the death of George McGleason, aged 13, of Latonia, Ky., a suburb. He is the sixth to die of baseball injuries in this city and suburbs since the season opened.

Meat Shortage in America.

London, June 6.-It is said here that 210,000 pounds of American ment that has been stored in London, Glasgow and Liverpool, has been reshipped by fast steamer to New York to meet the continued shortage of meat in America.

Constipation

May be permanently overcome by proper personal efforts with the assistance of the one truly beneficial laxative remedy, Syrup of figs and Ediur of Senna, which enables one to form regular habits daily so that assistance to nature may be gradually dispensed with when no longer needed as the best of remedies, when required are to assist remedies, when required, are to assist nature and not to supplant the natural functions, which must depend ultimately upon proper nourishment, proper efforts, and right living generally. To get its beneficial effects, always buy the genuine

Syrup Figs and Elixir & Senna

FIG SYRUP CO. ONLY SOLD BY ALL LEADING DRUGGISTS one size only, regular price 50 per Bottle

Curlous Indian Custom.

The following curious custom is recorded by J. Owen Dorsey in his monograph on the sociology of the Omaha Indians:

"In the spring when the grass comes up there is a council or tribal assembly held to which a feast is given by the head of the Hanga geno. After they decide that planting time has come and at command of the Hanga man a crier is sent through the villages. He wears a robe with hair outside and cries as he goes. indeed, say that you will dig the ground! Hallo!' He carries sacred corn, which has been shelled and to each household he gives two or three grains, which are mixed with the seed corn of the household."

After this it is lawful for the people to dig up the soil and plant their

TORTURED SIX MONTHS

By Terrible Itching Eczema—Baby's Suffering Was Terrible — Soon Entirely Cured by Cuticura.

"Eczema appeared on my son's face, We went to a doctor who treated him for three months. Then he was so bad that his face and head were nothing but one sore and his ears looked as if they were going to fall off, so we tried another doctor for four months, the baby never getting any better. His hand and legs had big sores on them and the poor little fellow suffered so terribly that he could not sleep. After he had suffered six months we tried a set of the Cuticura Remedies and the first treatment let him sleep and rest well; in one week the sores were gone and in two months he had a clear face. Now he is two years and has never had eczema again, Mrs. Louis Leck, R. F. D. 3, San Antonio, Tex., Apr. 15, 1907."

External Evidence.

Little Clarence had the experience for the first time of taking his bath in a cold room with water not at the usual temperature. His mamma left him for a moment, while he looked aghast at the "goose flesh" that ap-

peared. "Hurry up, mamma," he called, "I'm turning into a chicken."-Harper's

On assured railroad 36 miles from San Antonio, Texas, the man of small means can buy a farm of from 10 to 640 acres and 2 town lots for \$210. Pine climate, good water, rich soll, \$10 per month. Write Dr. Chas. F. Simmons, San Antonio, Texas.

A Matter of Time. It was the day of the ball game, and Willie, the office-boy, approached the head of the firm, and stammered: "If y-you p-p-pl-please, sir—"
"Come, hurry up!" said his employ-

er. "If you have anything to say, say it. Don't take half a day." "But that's just what I was going

to ask you if I could take," said Willie.-Harper's Weekly. Will you buy now, or will you walt until the good land is all gone. From

10 to 640 acres and 2 town lots of the choicest land in South Texas, for \$210, at \$10 per month. Write Dr. Chas. F. Simmons, San Antonio, Texas A cranky bachelor says that heaven

is probably so called because there are no marriages there

Lewis' Single Binder costs more than other 5c cigars. Smokers know why. Your dealer or Lewis' Factory, Peoria, Ill.

Usually the man who believes in paying as he goes stays at home. ARE YOUR CLOTHES FADED!

Use Red Cross Ball Blue and make then white again. Large 2 oz. package, 5 cents Nature is sometimes kind. Occa

sionally a red-headed man gets bald.

